WASTE MANAGEMENT

Volume 19, Number 1 1999

CONTENTS

Original contributions

J. Payá, M.V. Borrachero, J. Monzó, M. Bonilla	1	Properties of Portland cement mortars incorporating high amounts of oil-fuel ashes
M. Warith, L. Fernandes, N. Gaudet	9	Design of in-situ microbial filter for the remediation of naphthalene
J.D. Law, K.N. Brewer, R.S. Herbst, T.A. Todd, D.J. Wood	27	Development and demonstration of solvent extraction processes for the separation of radionuclides from acidic radioactive waste
R.P. Mourão	39	Spent sealed radium sources conditioning in Latin America
L. Pollner, P. Zagyvai	45	Subsurface transport modelling of long-lived nuclides
P. Palfy, E. Vircikova, L. Molnar	55	Processing of arsenic waste by precipitation and solidification

Book review

M.B. Mitchum	61	*Chemical Technology and Pollution Control*
	63	Patents ALERT

Volume 19, Number 2 1999

CONTENTS

T.P. Knepper, R-D. Wilken	75	Editorial

Original contributions

T.P. Knepper, F. Sacher, F.T. Lange, H.J. Brauch, F. Karrenbrock, O. Roerden, K. Lindner	77	Detection of polar organic substances relevant for drinking water
M. Castillo, F. Ventura, D. Barceló	101	Sequential solid phase extraction protocol followed by liquid chromatography–atmospheric pressure chemical ionization–mass spectrometry for the trace determination of non ionic polyethoxylated surfactants in tannery wastewaters
H.Fr. Schröder	111	Substance-specific detection and pursuit of non-eliminable compounds during biological treatment of waste water from the pharmaceutical industry

F.R. Schröder, M. Schmitt, U. Reichensperger	125	Effect of waste water treatment technology on the elimination of anionic surfactants
S-Y. Lee, J-I. Choi	133	Production and degradation of polyhydroxyalkanoates in waste environment
P. Araya, G. Aroca, R. Chamy	141	Anaerobic treatment of effluents from an industrial polymers synthesis plant
C. Nistor, J. Emnéus	147	Bioanalytical tools for monitoring polar pollutants
M. Bouzige, G. Machtalère, P. Legeay, V. Pichon, M-C. Hennion	171	New methodology for a selective on-line monitoring of some polar priority industrial chemicals in waste water
T. Reemtsma, A. Putschew, M. Jekel	181	Industrial wastewater analysis: a toxicity-directed approach

Volume 19, Number 3 1999

CONTENTS

O. Vidal, W.M. Murphy	189	Calculation of the effect of gaseous thermodiffusion and thermogravitation processes on the relative humidity surrounding a high level nuclear waste canister
K.J. Liekhus, M.J. Connolly	199	Estimation of volatile organic compounds (VOC) concentration within inner void volume of vented waste drums
F.G.F. Gibb	207	High-temperature, very deep, geological disposal: a safer alternative for high-level radioactive waste?
M. Uchida, K. Kikuchi, A. Okuwaki	213	Decomposition of NO_3^- by lead pellets with wet ball milling
J. Duchesne, E.J. Reardon	221	Lime treatment of fly ash: characterization of leachate composition and solid/water reactions
A. Özer, D. Özer, G. Dursun, S. Bulak	233	Cadmium(II) adsorption on *Cladophora crispata* in batch stirred reactors in series
	241	Patents ALERT

Volume 19, Number 4 1999

CONTENTS

Y. Topalova, D. Kozuharov, R. Dimkov	247	Adaptive response of trivial activated sludge towards toxic effect of oNP, PCP and combination oNP/PCP
S.H. Lin, C.T. Shyu	255	Performance characteristics and modeling of carbon dioxide absorption by amines in a packed column
C.-T. Huang, G. Wu	263	Improvement of Cs leaching resistance of solidified radwastes with copper ferrocyanide (CFC)-vermiculite

K.R. Reddy, S. Chinthamreddy	269	Electrokinetic remediation of heavy metal-contaminated soils under reducing environments
M.A. Rabah	283	Cost effectiveness of abatement options for emissions control in Egyptian iron foundries
E.J. Anthony, L. Jia, M. Caris, F. Preto, S. Burwell	293	An examination of the exothermic nature of fluidized bed combustion (FBC) residues
	307	Book review
	309	Patents ALERT

Volume 19, Number 5 1999

CONTENTS

K. Vijayaraghavan, T.K. Ramanujam, N. Balasubramanian	319	In situ hypochlorous acid generation for the treatment of syntan wastewater
C.D. Hills, R.E.H. Sweeney, N.R. Buenfeld	325	Microstructural study of carbonated cement-solidified synthetic heavy metal waste
B. Kıyak, A. Özer, H.S. Altundoğan, M. Erdem, F. Tümen	333	Cr(VI) reduction in aqueous solutions by using copper smelter slag
J. Yan, L. Moreno, I. Neretnieks	339	The neutralization behavior of MSWI bottom ash on different time scales and in different reaction systems
D.S. Jean, D.J. Lee	349	Expression deliquoring of oily sludge from a petroleum refinery plant
T. Hartmann, P. Paviet-Hartmann, J.B. Rubin, M.R. Fitzsimmons, K.E. Sickafus	355	The effect of supercritical carbon dioxide treatment on the leachability and structure of cemented radioactive waste-forms
	363	Book reviews
	367	Patents ALERT

Volume 19, Number 6 1999

CONTENTS

D.R. Turner, R.T. Pabalan	375	Abstraction of mechanistic sorption model results for performance assessment calculations at Yucca Mountain, Nevada
R.J. Spiegel, S.A. Thorneloe, J.C. Trocciola, J.L. Preston	389	Fuel cell operation on anaerobic digester gas: conceptual design and assessment

J. Sheng, S. Luo, B. Tang	401	The leaching behavior of borate waste glass SL-1
X.Z. Li, Q.L. Zhao, X.D. Hao	409	Ammonium removal from landfill leachate by chemical precipitation
W. Joos, V. Carabias, H. Winistoerfer, A. Stuecheli	417	Social aspects of public waste management in Switzerland
		Technical note
J. Satyanarayana, G.S. Murthy, P. Sasidhar	427	Adsorption studies of caesium on zirconium molybdoarsenate (ZrMAs)
	433	Book review
	435	Patents ALERT

Volume 19, Number 7–8 1999

CONTENTS

A.K. Nema, S.K. Gupta	441	Optimization of regional hazardous waste management systems: an improved formulation
R.D. Spence, T.M. Gilliam, C.H. Mattus, A.J. Mattus	453	Laboratory stabilization/solidification of surrogate and actual mixed-waste sludge in glass and grout
D. Mallants, G. Volckaert, J. Marivoet	467	Sensitivity of protective barrier performance to changes in rainfall rate
M.D. Tucker, L.L. Barton, B.M. Thomson, B.M. Wagener, A. Aragon	477	Treatment of waste containing $EDTA$ by chemical oxidation
S-Y. Lee, K. Jai Lee	483	Assessment of potential radiation exposures by uncontrolled recycle or reuse of radioactive scrap metals
Y-S. Li	495	The use of waste basic oxygen furnace slag and hydrogen peroxide to degrade 4-chlorophenol
M.A. Barakat	503	Recovery of metal values from zinc solder dross
S. Manohar, C. Srinivas, T. Vincent, P.K. Wattal	509	Management of spent solvents by alkaline hydrolysis process
A.M.O. Mohamed, K. Côté	519	Decision analysis of polluted sites — a fuzzy set approach
		Technical note
M. Tawfic Ahmed, A. Dewedar, L. Mekki, A. Diab	535	The efficacy of an oxidation pond in mineralizing some industrial waste products with special reference to fluorene degradation: a case study
	541	Book review
	543	Patents ALERT
	549	List of Contents and Author Index to Volume 19